Metadata for Fire Island National Seashore, Spatial Vegetation Data: Cover type / Association level of the National Vegetation Classification System

Identification_Information:
Citation:
Citation_Information:
Originator: Conservation Management Institute
Originator: NatureServe
Originator: New York Natural Heritage Program
Publication_Date: 200204
Title: NPS Vegetation Mapping Program: Vegetation of Fire Island National Seashore
Edition: 1.0
Geospatial_Data_Presentation_Form: vector digital data
Online_Linkage: http://biology.usgs.gov/npsveg/fiis/index.html#geospatial_veg_info
Description:
Abstract: This dataset is the finished product of the NPS Vegetation Mapping Project at Fire Island National Seashore. This dataset depicts the association-level vegetation map for the entire length of Fire Island and the William Floyd Estate. The park islands in the Great South Bay can be found in a separate file included on the disk. These vegetation polygons were interpreted and delineated from 1:1200-scale true-color aerial photographs taken in April 1997. They are attributed with NVCS associations as well as height, pattern, and density information.
Purpose: The purpose of this data is to provide the managers and researchers on Fire Island with an accurate spatially referenced dataset to assist in their efforts.
Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 199704
Currentness_Reference: ground condition as of 1997
Status:
Progress: Complete
Maintenance_and_Update_Frequency: None planned
Spatial_Domain:
Description_of_Geographic_Extent: Fire Island National Seashore and environs
Bounding_Coordinates:
West_Bounding_Coordinate: -73.315058
East_Bounding_Coordinate: -72.751087
North_Bounding_Coordinate: 40.785117
South_Bounding_Coordinate: 40.607277
Keywords:
Theme:
Theme_Keyword_Thesaurus: Fire Island
Theme_Keyword: Fire Island
Theme_Keyword: barrier island
Theme_Keyword: NVCS
Theme_Keyword: photointerpretation
Theme_Keyword: GPS
Theme_Keyword: vegetation classification
Theme_Keyword: NPS Vegetation Mapping Project
Theme_Keyword: GIS
Place:
Place_Keyword_Thesaurus: None
Place_Keyword: Long Island
Place_Keyword: coastal mapping
Place_Keyword: William Floyd Estate
Access_Constraints: There are no access constraints attached to these data.
Use_Constraints: These data were designed to identify and map vegetation polygons only. They are not appropriate for other uses

such as legal property boundary identification, tax assessment, etc.
Point_of_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: Conservation Management Institute
Contact_Person: Scott Klopfer
Contact_Position: GIS & Remote Sensning Division Coordinator
Contact_Address:
Address_Type: mailing and physical address
Address: 203 West Roanoke Street
City: Blacksburg
State_or_Province: Virginia
Postal_Code: 24061
Country: USA
Contact_Voice_Telephone: 540 231 7348
Contact_TDD/TTY_Telephone: none
Contact_Facsimile_Telephone: 540 231 7019
Contact_Electronic_Mail_Address: sklopfer@vt.edu
Hours_of_Service: 8-5 Monday through Friday EST
Contact_Instructions: email preferred
Browse_Graphic:
Browse_Graphic_File_Name: http://biology.usgs.gov/npsveg/fiis/images/fiisveg.html
Browse_Graphic_File_Description:
4 Kbyte graphic in map composition layout
Browse_Graphic_File_Type: JPG
Native_Data_Set_Environment: Microsoft Windows 2000 Version 5.0 (Build 2195) ; ESRI ArcCatalog 8.1.0.642

Data_Quality_Information:
Attribute_Accuracy:
Attribute_Accuracy_Report:
The accuracy of classification to association was completed with both a traditional and a fuzzy-set assessment. This assessment only determined accuracy for polygons at or above the MMU. The overall accuracy of the map was determined to be .58 (Kappa). The subsequent Level 5,4, and 3 level fuzzy accuracy assessment produced valuesof .64, .77 and .87 respectively. The Level 4 accuracy assessment value from the fuzzy assessment is provided for each class.

Accuracy assessments were also performed for polygons below the MMU. These can be found in the final report.
Quantitative_Attribute_Accuracy_Assessment:
Attribute_Accuracy_Value: Maritime Holly Forest
Attribute_Accuracy_Explanation:
Producers:88.9%
Users: 85.7%
This type was very similar to Maritime Deciduous Scrub Forest and was considered the same at Level 4.
Quantitative_Attribute_Accuracy_Assessment:
Attribute_Accuracy_Value: Old Field Red-Cedar Forest
Attribute_Accuracy_Explanation:
Producers:100%
Users: 100%
The type was easily identified and limited to two large stands on the Floyd Estate.
Quantitative_Attribute_Accuracy_Assessment:
Attribute_Accuracy_Value: Maritime Post Oak Forest
Attribute_Accuracy_Explanation:
Producers: 0%
Users: 0%
Only one stand was identified as this type. That stand was classified as Coastal Oak-Heath Forest during accuracy assessment.
Quantitative_Attribute_Accuracy_Assessment:
Attribute_Accuracy_Value: Coastal Oak-Heath Forest
Attribute_Accuracy_Explanation:
Producers: 100%
Users: 88.9%
This type was most often confused with Pitch pine - Oak Forest which differs only in amount of Pinus rigida in the canopy.
Quantitative_Attribute_Accuracy_Assessment:

Attribute_Accuracy_Value: Japanese Black Pine Forest
Attribute_Accuracy_Explanation:
Producers: 75%
Users: 78.6%
This type was most often confused with Pitch Pine Dune Woodland. The two types were considered the same at Level 4.
Quantitative_Attribute_Accuracy_Assessment:
Attribute_Accuracy_Value: Pitch Pine - Oak Forest
Attribute_Accuracy_Explanation:
Producers: 100%
Users: 85.7%
The photointerpreters felt that some polygons on the Floyd Estate were more appropriately assigned to this class rather than the Coastal Oak-Heath Forest. This type was very similar to the Coastal Oak -Heath type and was considered to be the same thing at Level 4. This type may actually be a product of a more oak dominated canopy with dense Smilax spp. beneath.
Quantitative_Attribute_Accuracy_Assessment:
Attribute_Accuracy_Value: Pitch Pine Dune Woodland
Attribute_Accuracy_Explanation:
Prodcuers: 81.3%
Users: 83.3%
This type was often found in small, linear, polygons, which may account for confusion with non-coniferous associations. Considered the same as Japanese Black Pine Forest for Level 4.
Quantitative_Attribute_Accuracy_Assessment:
Attribute_Accuracy_Value: Northern Dune Shrubland
Attribute_Accuracy_Explanation:
Producers: 57.1%
Users: 76.9%
There is no clear pattern of confusion beyond other shrubs, although some confusion (with herbaceous types) is due to complex polygon interspersion and small polygons.
Quantitative_Attribute_Accuracy_Assessment:
Attribute_Accuracy_Value: Maritime Deciduous Scrub Forest
Attribute_Accuracy_Explanation:
Prodcuers: 68.0%
Users: 64.7%
Nearly all of the confusion with this type occurs with other shrub associations such as Highbush Blueberry Shrub Forest. This type was considered the same as Maritime Holly Forest at Level 4.
Quantitative_Attribute_Accuracy_Assessment:
Attribute_Accuracy_Value: Maritime Vine Dune
Attribute_Accuracy_Explanation:
Producers: 25.0%
Users: 25.0%
This type is difficult to identify both from photography and in the field. It is closely associated with Northern Dune Shrubland and is often confused with it. It is also a rare type on Fire Island.
Quantitative_Attribute_Accuracy_Assessment:
Attribute_Accuracy_Value: Highbush Blueberry Shrub Forest
Attribute_Accuracy_Explanation:
Prodcuers: 50.0%
Users: 20.0%
This type is frequently confused with the other, more common wetland shrub types Maritime Deciduous Scrub Forest and Northern Salt Shrub.
Quantitative_Attribute_Accuracy_Assessment:
Attribute_Accuracy_Value: Northern Salt Shrub
Attribute_Accuracy_Explanation:
Prodcuers: 60.0%
Users: 57.9%
This type is frequently confused with other wetland types such as Highbush Blueberry Shrub Forest. Phragmites is found frequently within these stands as well.
Quantitative_Attribute_Accuracy_Assessment:
Attribute_Accuracy_Value: Beach Heather Dune
Attribute_Accuracy_Explanation:
Producers: 81.5%
Users: 86.4%
This type exists both as an association and with Northern Beach Grass Dune in mosaic. Errors are thought to occur in smaller

polygons juxtaposed with Northern Beach Grass Dune and Northern Dune Shrubland.

Quantitative_Attribute_Accuracy_Assessment:
Attribute_Accuracy_Value: Northern Interdunal Cranberry Swale
Attribute_Accuracy_Explanation:
Producers: 100%
Users: 40%
No single polygon of this association exists at the 0.25 MMU. These accuracy estimates are from small polygons. This type may be over-predicted on the landscape because it is easily confused with small herbaceous wetlands that are also filled with water at the time of photo acquisition.

Quantitative_Attribute_Accuracy_Assessment:
Attribute_Accuracy_Value: Northern Beach Grass Dune
Attribute_Accuracy_Explanation:
Producers: 87.5%
Users: 76.9%
This is the most prevalent association on Fire Island. It is part of a mosaic with Beach Heather Dune and most observed confusion is likely due to smaller polygons interspersed with that and Northern Dune Shrubland.

Quantitative_Attribute_Accuracy_Assessment:
Attribute_Accuracy_Value: Overwash Dune Grassland
Attribute_Accuracy_Explanation:
Producers: 0%
Users: 0%
This type was very limited in distribution on Fire Island. Although several polygons were labeled as this type, none were identified as such in the field. This type is easily confused with Beach Heather Dune or Northern Beach Grass Dune which further confounds mapping efforts.

Quantitative_Attribute_Accuracy_Assessment:
Attribute_Accuracy_Value: Brackish Interdunal Swale
Attribute_Accuracy_Explanation:
Producers: 66.7%
Users: 50.0%
This wetland type was often delineated with adjacent Reedgrass Marsh. It is also a rare type on Fire Island existing in polygons at or below the 0.25 ha MMU.

Quantitative_Attribute_Accuracy_Assessment:
Attribute_Accuracy_Value: Brackish Meadow
Attribute_Accuracy_Explanation:
Producers: 100%
Users: 20.0%
Although this type occurs all over Fire Island, it is found in narrow bands or small polygons often associated with Reedgrass Marsh. Only 1 field assessment point was located within this type.

Quantitative_Attribute_Accuracy_Assessment:
Attribute_Accuracy_Value: Reedgrass Marsh
Attribute_Accuracy_Explanation:
Producers: 58.8%
Users: 64.7%
Low accuracy is likely due to small sample size in the accuracy assessment set. This type was almost exclusively confused with other wetland types. Variable coverage density of Phragmites in other types may lead to confusion.

Quantitative_Attribute_Accuracy_Assessment:
Attribute_Accuracy_Value: Low Salt Marsh
Attribute_Accuracy_Explanation:
Producers: 97.3%
Users: 100%
This type was most often confused with High Salt Marsh. Photointerpretation was mostly determined by presence of water in the photographs which is highly variable (tides, season). This type was considered the same as High Salt Marsh for Level 4.

Quantitative_Attribute_Accuracy_Assessment:
Attribute_Accuracy_Value: High Salt Marsh
Attribute_Accuracy_Explanation:
Producers: 81.3%
Users: 100%
This type is found in close proximity and intermingled with the Low Salt Marsh type. These two were considered the same for the Level 4 assessment.

Quantitative_Attribute_Accuracy_Assessment:
Attribute_Accuracy_Value: Northern Sandplain Grassland

Attribute_Accuracy_Explanation:
Producers: 0%
Users: 0%
This type was only mapped in a single small polygon and was identified elsewhere during accuracy assessment. It is a very rare type and likely exists in very few small patches. Further confounding this type is its similarity to Northern Dune Shrubland.
Quantitative_Attribute_Accuracy_Assessment:
Attribute_Accuracy_Value: Cultivated Pasture
Attribute_Accuracy_Explanation:
Producers: 100%
Users: 100%
This type is easily identified on the Floyd Estate.
Quantitative_Attribute_Accuracy_Assessment:
Attribute_Accuracy_Value: Interdune Beachgrass-Beach Heather Mosaic
Attribute_Accuracy_Explanation:
Producers: 100%
Users: 89.5%This mosaic was considered correct if identified as either Northern Beach Grass Dune or Beach Heather Dune. There is likely much more of this type on Fire Island, but the sub-0.25 ha polygons make its appearance in the map more rare.
Logical_Consistency_Report: All linework was cleaned before building topology. All reulting polygons are attributed with the appropriate information.
Completeness_Report: The minimum mapping unit for this project is 0.25-ha. There are, however, several polygons in the map that are smaller than this mapping area. We decided to include these small polygons for several reasons. The most important of these is that many of the recognizable vegetation and man-made features on Fire Island are smaller than the 0.25 MMU planned in the contract. Inclusion of smaller mapping units allowed us to capture these features and improve the utility of the vegetation map. It also allowed us to avoid conglomerating obviously homogeneous blocks of vegetation into "mosaics" or "complexes" at the 0.25-ha unit level.
Positional_Accuracy:
Horizontal_Positional_Accuracy:
Horizontal_Positional_Accuracy_Report:
We collected a total 89 map points on Fire Island and the William Floyd Estate. Of these, 21 points were removed because the standard deviation of the differentially corrected location was higher than 10 m. The resulting 68 points were then overlaid onto the vegetation map and georeferenced aerial photography to assess spatial accuracy of the map. Each point was examined, and the difference (in meters) between the GPS location and map location was measured using the masuring tool in Arc View. This value was entered into the appropriate field in the database. If the exact location of the map point could not be determined or discerned from the aerial photograph, the point was eliminated from consideration.

A total of 21 points were removed because they could not be accurately measured. This left 47 points for assessing the spatial accuracy of the vegetation map. The mean error distance was found to be 4.42 m (± 4.94 m). Errors distances ranged from 0.00 m - 30.0 m. When the single 30 m error point was removed (assumed to be an outlier), the mean error distance was 3.86 m ((± 3.18 m) with a range of 0.00 m - 14.09 m.
Lineage:
Source_Information:
Source_Citation:
Citation_Information:
Originator: Aerographics, Inc.
Publication_Date: 199704
Title: Aerial Photography
Geospatial_Data_Presentation_Form: true-color aerial photography
Type_of_Source_Media: hard copy stereo pair photographs
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 199707
Source_Currentness_Reference: ground condition
Source_Citation_Abbreviation: FIIS 1997 CIR Aerial Photographs
Source_Contribution: This dataset was used for photointerpretation (with steroscopes).
Source_Information:
Source_Citation:
Citation_Information:
Originator: Aerographics, Inc.
Publication_Date: 199704

Title: Aerial Photography
Geospatial_Data_Presentation_Form: Georeferenced True Color aerial photography
Type_of_Source_Media: digital image
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 199707
Source_Currentness_Reference: ground condition
Source_Citation_Abbreviation: FIIS 1997 CIR Aerial Photographs
Source_Contribution: These are the scanned and georeferenced versions of the true color photography. These were used to delineate polygon boundaries with on-screen digitizing.
Process_Step:
Process_Description: This vegetation map was created from aerial photographs. The photos were scanned at 600 dpi and georeferenced using control points gathered from georeferenced digital orthophoto quads from the USGS. ONce the digital photos were georeferenced, they were used to delineate map polygons interpreted from the stero-paired aerial photographs. Once the delineation of polygons was complete, each polygon was attributed with it's appropriate map class (or vegetation association), height class, pattern class, and density value. The final layer was converted to an ARCINFO coverage and topology was built.
Process_Date: 199704

Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method: Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: Complete chain
Point_and_Vector_Object_Count: 15733
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: Label point
Point_and_Vector_Object_Count: 7738
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: GT-polygon composed of chains
Point_and_Vector_Object_Count: 7738
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: Point
Point_and_Vector_Object_Count: 4

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Planar:
Grid_Coordinate_System:
Grid_Coordinate_System_Name: Universal Transverse Mercator
Universal_Transverse_Mercator:
UTM_Zone_Number: 18
Transverse_Mercator:
Scale_Factor_at_Central_Meridian: 0.999600
Longitude_of_Central_Meridian: -75.000000
Latitude_of_Projection_Origin: 0.000000
False_Easting: 500000.000000
False_Northing: 0.000000
Planar_Coordinate_Information:
Planar_Coordinate_Encoding_Method: coordinate pair
Coordinate_Representation:
Abscissa_Resolution: 0.000336
Ordinate_Resolution: 0.000336
Planar_Distance_Units: meters
Geodetic_Model:
Horizontal_Datum_Name: North American Datum of 1983
Ellipsoid_Name: Geodetic Reference System 80
Semi-major_Axis: 6378137.000000
Denominator_of_Flattening_Ratio: 298.257222

Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label: Vegetation / Land Cover (fiis_veg.pat)
Entity_Type_Definition: Association-level vegetation / landcover information for the entire length of Fire Island and the William Floyd Estate. The park islands in the Great South Bay can be found in a separate file included on the disk. These vegetation polygons were interpreted and delineated from 1:1200-scale true-color aerial photographs taken in April 1997. They are attributed with NVCS associations as well as height, pattern, and density information.
Entity_Type_Definition_Source: Fire Island National Seashore and the USGS-NPS Vegetation Mapping Program.
Attribute:
Attribute_Label: FID
Attribute_Definition: Internal feature number.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Shape
Attribute_Definition: Feature geometry.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: Polygon
Enumerated_Domain_Value_Definition: A two-dimensional feature representing an area such as a state or county.
Enumerated_Domain_Value_Definition_Source: ESRI Glossary definitions.
Attribute:
Attribute_Label: AREA
Attribute_Definition: Area of feature in internal units squared.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain: Positive real numbers that are automatically generated.
Attribute:
Attribute_Label: PERIMETER
Attribute_Definition: Perimeter of feature in internal units.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain: Positive real numbers that are automatically generated.
Attribute:
Attribute_Label: FIIS_VEG#
Attribute_Definition: Internal feature number.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: FIIS_VEG-ID
Attribute_Definition: User-defined feature number.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain: Whole numbers
Attribute:
Attribute_Label: MAP_CODE
Attribute_Definition: numeric code corresponding to map class
Attribute_Definition_Source: National Vegetation Classification Standard
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name: Fire Island Vegetation Map Codeset
Codeset_Source: Conservation Management Institute
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name: National Vegetation Classification Standard
Codeset_Source: Federal Geographic Data Commission
Attribute:

Attribute_Label: MAP_CODE_DESC
Attribute_Definition: English (not latin names) textual description of the map class name
Attribute_Definition_Source: Fire Island National Seashore
Attribute_Domain_Values:
Unrepresentable_Domain: textual class name
Attribute:
Attribute_Label: HEIGHT_CODE
Attribute_Definition: numeric code corresponding to height categories
Attribute_Definition_Source: USGS-NPS Vegetation Mapping Program
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 1
Enumerated_Domain_Value_Definition: 0 - 0.5 m
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Enumerated_Domain:
Enumerated_Domain_Value: 2
Enumerated_Domain_Value_Definition: 0.5 - 1m
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Enumerated_Domain:
Enumerated_Domain_Value: 3
Enumerated_Domain_Value_Definition: 1- 5 m
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Enumerated_Domain:
Enumerated_Domain_Value: 4
Enumerated_Domain_Value_Definition: 5 - 15 m
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Enumerated_Domain:
Enumerated_Domain_Value: 5
Enumerated_Domain_Value_Definition: 15 - 30 m
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Enumerated_Domain:
Enumerated_Domain_Value: 0
Enumerated_Domain_Value_Definition: Not Applicable
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Attribute:
Attribute_Label: HEIGHT_CODE_DESC
Attribute_Definition: textual description of the height class name
Attribute_Definition_Source: USGS-NPS Vegetation Mapping Program
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: "Not Applicable"
Enumerated_Domain_Value_Definition: Vegetation height is not applicable to this map unit class
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Enumerated_Domain:
Enumerated_Domain_Value: "0 m - 0.5 m"
Enumerated_Domain_Value_Definition: Vegetation is between 0 meters and 0.5 meters in height
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Enumerated_Domain:
Enumerated_Domain_Value: "0.5 m - 1 m"
Enumerated_Domain_Value_Definition: Vegetation is between 0.5 meters and 1 meter in height
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Enumerated_Domain:
Enumerated_Domain_Value: "1 m - 5 m"
Enumerated_Domain_Value_Definition: Vegetation is between 1 meter and 5 meters in height
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Enumerated_Domain:
Enumerated_Domain_Value: "5 m - 15 m"
Enumerated_Domain_Value_Definition: Vegetation is between 5 meters and 15 meters in height
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Enumerated_Domain:
Enumerated_Domain_Value: "15 m - 30 m"

Enumerated_Domain_Value_Definition: Vegetation is between 15 meter and 30 meters in height
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Attribute:
Attribute_Label: DENSITY_CODE
Attribute_Definition: code corresponding to the percent coverage of vegetative material covering the plot
Attribute_Definition_Source: USGS-NPS Vegetation Mapping Program
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 1
Enumerated_Domain_Value_Definition: >60% Vegetation Coverage
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Enumerated_Domain:
Enumerated_Domain_Value: 2
Enumerated_Domain_Value_Definition: 40%-60% Vegetation Coverage
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Enumerated_Domain:
Enumerated_Domain_Value: 3
Enumerated_Domain_Value_Definition: 10%-40% Vegetation Coverage
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Enumerated_Domain:
Enumerated_Domain_Value: 4
Enumerated_Domain_Value_Definition: <10% Vegetation Coverage
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Enumerated_Domain:
Enumerated_Domain_Value: 0
Enumerated_Domain_Value_Definition: Not Applicable
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Attribute:
Attribute_Label: DENSITY_CODE_DES
Attribute_Definition: textual description of Density Code
Attribute_Definition_Source: USGS-NPS Vegetation Mapping Program
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: ">60% Vegetation Coverage"
Enumerated_Domain_Value_Definition: Vegetation has a crown closure that is greater than 60%
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Enumerated_Domain:
Enumerated_Domain_Value: "40%-60% Vegetation Coverage"
Enumerated_Domain_Value_Definition: Vegetation has a crown closure that is between 40% and 60%
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Enumerated_Domain:
Enumerated_Domain_Value: "10%-40% Vegetation Coverage"
Enumerated_Domain_Value_Definition: Vegetation has a crown closure that is between 10% and 40%
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Enumerated_Domain:
Enumerated_Domain_Value: "<10% Vegetation Coverage"
Enumerated_Domain_Value_Definition: Vegetation has a crown closure that is less than 10%
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Enumerated_Domain:
Enumerated_Domain_Value: "Not Applicable"
Enumerated_Domain_Value_Definition: Vegetation density is not applicable to this map class
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Attribute:
Attribute_Label: LANDUSE_CODE
Attribute_Definition: project standard field not used for vegetation mapping at Fire Island National Seashore
Attribute_Definition_Source: Fire Island National Seashore
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: "0"
Enumerated_Domain_Value_Definition: Attribute not used for vegetation mapping at Fire Island National Seashore
Enumerated_Domain_Value_Definition_Source: Fire Island National Seashore

Attribute:
Attribute_Label: LANDUSE_CODE_DES
Attribute_Definition: project standard field not used for vegetation mapping at Fire Island National Seashore
Attribute_Definition_Source: Fire Island National Seashore
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: blank
Enumerated_Domain_Value_Definition: Attribute not used for vegetation mapping at Fire Island National Seashore
Enumerated_Domain_Value_Definition_Source: Fire Island National Seashore
Attribute:
Attribute_Label: PATTERN_CODE
Attribute_Definition: numeric code corresponding to the vegetation pattern observed in the polygon
Attribute_Definition_Source: USGS-NPS Vegetation Mapping Program
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 1
Enumerated_Domain_Value_Definition: Evenly dispersed
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Enumerated_Domain:
Enumerated_Domain_Value: 2
Enumerated_Domain_Value_Definition: Clumped/Bunched
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Enumerated_Domain:
Enumerated_Domain_Value: 3
Enumerated_Domain_Value_Definition: Gradational/Transitional
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Enumerated_Domain:
Enumerated_Domain_Value: 4
Enumerated_Domain_Value_Definition: Alternating
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Enumerated_Domain:
Enumerated_Domain_Value: 0
Enumerated_Domain_Value_Definition: Not Applicable
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Attribute:
Attribute_Label: PATTERN_CODE_DES
Attribute_Definition: textual description of the pattern code
Attribute_Definition_Source: USGS-NPS Vegetation Mapping Program
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: "Evenly dispersed"
Enumerated_Domain_Value_Definition: Vegetation is evenly dispersed across the map unit
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Enumerated_Domain:
Enumerated_Domain_Value: "Clumped/Bunched"
Enumerated_Domain_Value_Definition: Vegetation has a clumped or bunched pattern across the map unit
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Enumerated_Domain:
Enumerated_Domain_Value: "Gradational/Transitional"
Enumerated_Domain_Value_Definition: Vegetation has a gradational or transitional pattern across the map unit
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Enumerated_Domain:
Enumerated_Domain_Value: "Alternating"
Enumerated_Domain_Value_Definition: Vegetation has an alternating pattern across the map unit
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program
Enumerated_Domain:
Enumerated_Domain_Value: "Not Applicable"
Enumerated_Domain_Value_Definition: The pattern of the vegetation is not applicable to this map unit
Enumerated_Domain_Value_Definition_Source: USGS-NPS Vegetation Mapping Program

Distribution_Information:
Distributor:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: USGS Biological Resources Division, Center for Biological Informatics
Contact_Person: USGS-NPS Vegetation Mapping Program Coordinator
Contact_Address:
Address_Type: Physical Address
Address: USGS
Address: Biological Resources Division, CBI
Address: Building 810, Room 8000
City: Denver
State_or_Province: Colorado
Postal_Code: 80225-0046
Country: USA
Contact_Address:
Address_Type: Mailing Address
Address: USGS
Address: Biological Resources Division, CBI
Address: PO BOX 25046, DFC, MS302
City: Denver
State_or_Province: Colorado
Postal_Code: 80225-0046
Country: USA
Contact_Voice_Telephone: (303) 202-4220
Contact_Facsimile_Telephone: 303-202-4229
Contact_Facsimile_Telephone: 303-202-4219 (org)
Contact_Electronic_Mail_Address: gs-b-npsveg@usgs.gov
Resource_Description: NPS Vegetation Mapping Program: Vegetation Map of Fire Island National Seashore
Distribution_Liability: The distributor maintains no liability for the use and application of these data beyond it's intended use as a depiction of vegetation.
Standard_Order_Process:
Digital_Form:
Digital_Transfer_Information:
Format_Name: HTML
Digital_Transfer_Option:
Online_Option:
Computer_Contact_Information:
Network_Address:
Network_Resource_Name: http://biology.usgs.gov/npsveg/fiis/index.html#geospatial_veg_info
Fees: None

Metadata_Reference_Information:
Metadata_Date: 20020425
Metadata_Review_Date: 20060831
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: USGS-NPS Vegetation Mapping Program Coordinator
Contact_Address:
Address_Type: mailing and physical address
Address:
U.S. Geological Survey, Center for Biological Informatics, MS 302,
Room 8000, Building 810, Denver Federal Center
City: Denver
State_or_Province: Colorado
Postal_Code: 80225
Country: USA
Contact_Voice_Telephone: (303) 202-4220
Contact_Facsimile_Telephone: (303) 202-4219
Contact_Electronic_Mail_Address: gs-b-npsveg@usgs.gov

Metadata_Standard_Name: FGDC-STD-001.1-1999 Content Standard for Digital Geospatial Metadata, 1998 Part 1: Biological Data Profile, 1999
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Extensions:
Online_Linkage: http://biology.usgs.gov/fgdc.bio/bionwext.txt
Profile_Name: Biological Data Profile FGDC-STD-001.1-1999